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MINOMIYA KATSUMI**(54) PRODUCTION OF HYDROGENATED PETROLEUM RESIN HAVING EXCELLENT TACKY ADHESIVE CHARACTERISTIC AND TACKY ADHESIVE COMPOSITION CONTAINING PRODUCED HYDROGENATED PETROLEUM RESIN**

(57)Abstract:

**PURPOSE:** To obtain the subject resin having excellent tacky adhesive characteristics, heat-resistance, etc., and useful as a tacky adhesive by thermally polymerizing a cyclopentadiene compound and a specific aromatic hydrocarbon at a specific ratio under a specific condition and hydrogenating the resultant copolymer resin.

**CONSTITUTION:** The objective resin can be produced by (1) thermally polymerizing (A) 1mol of a cyclopentadiene compound with (B) 0.42-0.65mol of a polymerizable aromatic hydrocarbon selected from monovinyl aromatic hydrocarbon (e.g., styrene) and indenenes under a condition to satisfy the formula  $P \geq 11$  wherein P is a value calculated by the formula  $HAROMA$  is number of hydrogen atoms determined by  $^1H$ -NMR on the aromatic carbon in the produced copolymer resin;  $HND+CD$  is sum of the hydrogen numbers determined by  $^1H$ -NMR on norbornene ring double bond carbon and cyclopentene ring double bond carbon in the copolymer resin; B is molar ratio of A/B) and (2) hydrogenating the obtained copolymer resin in the presence of a hydrogenation catalyst.

$$P = ( HAROMA / HND + CD ) \times B$$

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